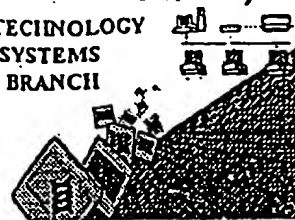


BIOTECHNOLOGY
SYSTEMS
BRANCH



Applicant Copy
09/804,733D

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/804 733D
Source: 1FW16
Date Processed by STIC: 3/24/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

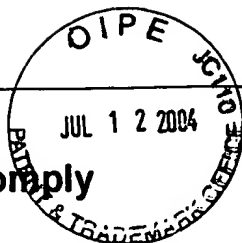
<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Notice to Comply



Application No.

09/804,733

Examiner

Gerald G. Leffers Jr.

Applicant(s)

WANG ET AL

Art Unit

1636

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

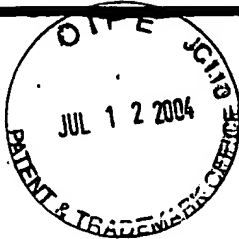
For CRF Submission Help, call (703) 308-4212

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IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004
TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

3 <110> APPLICANT: WANG, QI ET AL.
5 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS
7 <130> FILE REFERENCE: MONS:016US
9 <140> CURRENT APPLICATION NUMBER: 09/804,733D
10 <141> CURRENT FILING DATE: 2001-03-13
12 <150> PRIOR APPLICATION NUMBER: 06/188,990 *60/188,990*
13 <151> PRIOR FILING DATE: 2000-03-13
15 <160> NUMBER OF SEQ ID NOS: 31
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 5
21 <212> TYPE: PRT
22 <213> ORGANISM: Euthynnus pelamis
24 <400> SEQUENCE: 1
25 Leu Lys Pro Asn Met
26 1 5
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 4
31 <212> TYPE: PRT
32 <213> ORGANISM: Euthynnus pelamis
34 <400> SEQUENCE: 2
35 Lys Pro Asn Met
36 1
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 4
41 <212> TYPE: PRT
42 <213> ORGANISM: Euthynnus pelamis
44 <400> SEQUENCE: 3
45 Val Val Tyr Pro
46 1
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 15
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
56 Primer
58 <220> FEATURE:
59 <221> NAME/KEY: modified_base
60 <222> LOCATION: (3)..(9)
61 <223> OTHER INFORMATION: N = A, C, G or T/U
63 <400> SEQUENCE: 4
W--> 64 ctnaarccna ayatg

15

RAW SEQUENCE LISTING

DATE: 03/24/2004

PATENT APPLICATION: US/09/804,733D

TIME: 15:55:24

Input Set : D:\Mons016.app

Output Set: N:\CRF4\03242004\I804733D.raw

67 <210> SEQ ID NO: 5
 68 <211> LENGTH: 60
 69 <212> TYPE: DNA
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 74 Primer
 76 <220> FEATURE:
 77 <221> NAME/KEY: modified_base
 78 <222> LOCATION: (3)..(54)
 79 <223> OTHER INFORMATION: N = A, C, G, or T/U
 81 <400> SEQUENCE: 5
 W--> 82 ctnaarcnaa ayatgctnaa rocnaayatg ctnaarcna ayatgctnaa rocnaayatg 60
 85 <210> SEQ ID NO: 6
 86 <211> LENGTH: 60
 87 <212> TYPE: DNA
 88 <213> ORGANISM: Artificial Sequence
 90 <220> FEATURE:
 91 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 92 Primer
 94 <220> FEATURE:
 95 <221> NAME/KEY: modified_base
 96 <222> LOCATION: (7)..(52) *what about "n" at location 58?*
 97 <223> OTHER INFORMATION: N = A, C, G or T/U
 99 <400> SEQUENCE: 6
 W--> 100 catrttnggy ttnagcatrt tnggyttnag catrttnggy ttnagcatrt tnggyttnag 60
 103 <210> SEQ ID NO: 7
 104 <211> LENGTH: 25
 105 <212> TYPE: DNA
 106 <213> ORGANISM: Artificial Sequence
 108 <220> FEATURE:
 109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 110 Primer
 112 <220> FEATURE:
 113 <221> NAME/KEY: modified_base
 114 <222> LOCATION: (12)..(18)
 115 <223> OTHER INFORMATION: N = A, C, G or T/U
 117 <400> SEQUENCE: 7
 W--> 118 aaagaattcc tnaarcnaa yatgc 25
 121 <210> SEQ ID NO: 8
 122 <211> LENGTH: 27
 123 <212> TYPE: DNA
 124 <213> ORGANISM: Artificial Sequence
 126 <220> FEATURE:
 127 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 128 Primer
 130 <220> FEATURE:
 131 <221> NAME/KEY: modified_base
 132 <222> LOCATION: (18)..(24)

RAW SEQUENCE LISTING

DATE: 03/24/2004

PATENT APPLICATION: US/09/804,733D

TIME: 15:55:24

Input Set : D:\Mons016.app

Output Set: N:\CRF4\03242004\I804733D.raw

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133 <223> OTHER INFORMATION: N = A, C, G or T/U
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W--> 136 aaagcgccg ccatrttngg yttnagc 27
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 20
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
146     Primer
148 <400> SEQUENCE: 9
149 taatacgact cactataggg 20
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 19
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
159     Primer
161 <400> SEQUENCE: 10
162 cgatcaataa cgagtcgcc 19
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 48
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
172     Primer
174 <220> FEATURE:
175 <221> NAME/KEY: modified_base
176 <222> LOCATION: (3)..(48)
177 <223> OTHER INFORMATION: N = A, C, G or T/U
179 <400> SEQUENCE: 11
W--> 180 gtngtntayc cngtngnta yccngtngta tayccngtng tntayccn 48
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 48
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
190     Primer
192 <220> FEATURE:
193 <221> NAME/KEY: modified_base
194 <222> LOCATION: (1)..(46)
195 <223> OTHER INFORMATION: N = A, C, G or T/U
197 <400> SEQUENCE: 12
W--> 198 nggrtanacn acnggrtana cnacnggrta nacnacnggr tanacnac 48
201 <210> SEQ ID NO: 13
202 <211> LENGTH: 33

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RAW SEQUENCE LISTING

DATE: 03/24/2004

PATENT APPLICATION: US/09/804,733D

TIME: 15:55:24

Input Set : D:\Mons016.app

Output Set: N:\CRF4\03242004\I804733D.raw

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203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
208     Primer
210 <220> FEATURE:
211 <221> NAME/KEY: modified_base
212 <222> LOCATION: (12)..(33)
213 <223> OTHER INFORMATION: N = A, C, G or T/U
215 <400> SEQUENCE: 13
W--> 216 aaaggatccg tngtntaycc ngtngtntay ccn                      33
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 33
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
226     Primer
228 <220> FEATURE:
229 <221> NAME/KEY: modified_base
230 <222> LOCATION: (10)..(31)
231 <223> OTHER INFORMATION: N = A, C, G or T/U
233 <400> SEQUENCE: 14
W--> 234 cccaagcttn ggrrtanacna cnggrtanac nac                      33
237 <210> SEQ ID NO: 15
238 <211> LENGTH: 45
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
244     Primer
246 <220> FEATURE:
247 <221> NAME/KEY: modified_base
248 <222> LOCATION: (3)..(45)
249 <223> OTHER INFORMATION: N = A, C, G or T/U
251 <400> SEQUENCE: 15
W--> 252 gtncnccng tncnccngt nccnccngtn cncnccngtnc cncnccn          45
255 <210> SEQ ID NO: 16
256 <211> LENGTH: 45
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
262     Primer
264 <220> FEATURE:
265 <221> NAME/KEY: modified_base
266 <222> LOCATION: (1)..(43)
267 <223> OTHER INFORMATION: N = A, C, G or T/U
269 <400> SEQUENCE: 16

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004

TIME: 15:55:24

Input Set : D:\Mons016.app

Output Set: N:\CRF4\03242004\I804733D.raw

W--> 270 ngngngnaen ggnggnacng gnggnacngg nggnacnggn ggnac 45
 273 <210> SEQ ID NO: 17
 274 <211> LENGTH: 36
 275 <212> TYPE: DNA
 276 <213> ORGANISM: Artificial Sequence
 278 <220> FEATURE:
 279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 280 Primer
 282 <220> FEATURE:
 283 <221> NAME/KEY: modified_base
 284 <222> LOCATION: (12)..(36)
 285 <223> OTHER INFORMATION: N = A, C, G or T/U
 287 <400> SEQUENCE: 17

W--> 288 aaaggatccg tncncncngt nccncncngtn cncncn 36
 291 <210> SEQ ID NO: 18
 292 <211> LENGTH: 36
 293 <212> TYPE: DNA
 294 <213> ORGANISM: Artificial Sequence
 296 <220> FEATURE:
 297 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 298 Primer
 300 <220> FEATURE:
 301 <221> NAME/KEY: modified_base
 302 <222> LOCATION: (10)..(34)
 303 <223> OTHER INFORMATION: N = A, C, G or T/U
 305 <400> SEQUENCE: 18

W--> 306 aataagcttn ggnggnacng gnggnacngg nggnac 36
 309 <210> SEQ ID NO: 19
 310 <211> LENGTH: 8
 311 <212> TYPE: PRT
 312 <213> ORGANISM: Artificial Sequence
 314 <220> FEATURE:
 315 <223> OTHER INFORMATION: Description of Artificial Sequence:m Synthetic
 316 Peptide
 318 <400> SEQUENCE: 19
 319 Val Pro Pro Leu Lys Pro Asn Met
 320 1 5
 323 <210> SEQ ID NO: 20
 324 <211> LENGTH: 48
 325 <212> TYPE: DNA
 326 <213> ORGANISM: Artificial Sequence
 328 <220> FEATURE:
 329 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 330 Primer
 332 <220> FEATURE:
 333 <221> NAME/KEY: modified_base
 334 <222> LOCATION: (3)..(42)
 335 <223> OTHER INFORMATION: N = A, C, G or T/U
 337 <400> SEQUENCE: 20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004
TIME: 15:55:25

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 3,9
Seq#:5; N Pos. 3,9,18,24,33,39,48,54
Seq#:6; N Pos. 7,13,22,28,37,43,52,58
Seq#:7; N Pos. 12,18
Seq#:8; N Pos. 18,24
Seq#:11; N Pos. 3,6,12,15,18,24,27,30,36,39,42,48
Seq#:12; N Pos. 1,7,10,13,19,22,25,31,34,37,43,46
Seq#:13; N Pos. 12,15,21,24,27,33
Seq#:14; N Pos. 10,16,19,22,28,31
Seq#:15; N Pos. 3,6,9,12,15,18,21,24,27,30,33,36,39,42,45
Seq#:16; N Pos. 1,4,7,10,13,16,19,22,25,28,31,34,37,40,43
Seq#:17; N Pos. 12,15,18,21,24,27,30,33,36
Seq#:18; N Pos. 10,13,16,19,22,25,28,31,34
Seq#:20; N Pos. 3,6,9,12,18,27,30,33,36,42
Seq#:21; N Pos. 7,13,16,19,22,31,37,40,43,46
Seq#:22; N Pos. 13,16,19,22,28,37,40,43,46,52
Seq#:23; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:25; N Pos. 3,6,9,15,18,21,24,30,39,42,45,51,54,57,60,66
Seq#:26; N Pos. 7,13,16,19,22,28,31,34,43,49,52,55,58,64,67,70
Seq#:27; N Pos. 13,16,19,25,28,31,34,40,49,52,55,61,64,67,70,76
Seq#:28; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:30; N Pos. 3,9,18,24,33,39,48,54,63,69,78,84,93,99,108,114,123,129,138
Seq#:30; N Pos. 144,153,159,168,174,183,189,198,204,213,219,228,234,243,249
Seq#:30; N Pos. 258,264,273,279,288,294,303,309,318,324,333,339,348,354,363
Seq#:30; N Pos. 369,378,384,393,399,408,414,423,429,438,444,453,459,468,474
Seq#:30; N Pos. 483,489,498,504,513,519,528,534,543,549,558,564,573,579,588
Seq#:30; N Pos. 594,603,609
Seq#:31; N Pos. 3,9,18,24,33,39,48,54,63,69,78,84,93,99,108,114,123,129,138
Seq#:31; N Pos. 144,153,159,168,174,183,189,198,204,213,219,228,234,243,249
Seq#:31; N Pos. 258,264,273,279,288,294,303,309,318,324,329,335,344,350,359
Seq#:31; N Pos. 365,374,380,385,391

VERIFICATION SUMMARY

DATE: 03/24/2004

PATENT APPLICATION: US/09/804,733D

TIME: 15:55:25

Input Set : D:\Mons016.app

Output Set: N:\CRF4\03242004\I804733D.raw

L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31